

## Abstract

Method for checking for line faults in a bus system,  
and a bus system

The invention relates to a method for checking for line faults in a bus system (1) which has at least two bus subscribers (2 - 5) which are connected for the purpose of data communication with one another to a data bus (6) which has at least two bus lines (7, 8), with the bus subscribers (2-5) being able to assume a recessive state and a dominant state, and with an internal high potential (VCC, VCC2) and an internal low potential (GND, GND2) being available in the bus subscribers,

- with the check for a line fault being carried out by the bus subscriber (2) which is in the dominant state, and
- with the check for line faults being carried out by comparison of voltage levels (VCANH, VCANL) on the bus lines (7, 8) with threshold values (Vref1, Vref3) which are related to the internal high level (VCC2) or to the internal low level (GND2) of the bus subscriber (2).

The invention also relates to a bus system in which at least one bus subscriber has a device for fault identification in order to carry out one of the methods mentioned above.

Figure 3